

CURRICULUM VITA

LYNETTE D. STOKES, PhD, MPH

Department of Labor
Employment Standards
Administration, DEEOIC
200 Constitution Ave, NW
Washington, DC 20210

EDUCATION

- 1980 - June **B.A. Biology/Chemistry** (Cum Laude),
Oakwood College, Huntsville, Alabama
- 1982 - May **M.P.H. Epidemiology**, University of
Michigan, School of Public Health,
Ann Arbor, Michigan
- 1990 - September **Ph.D. Environmental Health and
Toxicology**, University at Albany, State
University of New York, School of
Public Health, New York State
Department of Health, Albany, New York
- Dissertation: An epidemiologic study of
pesticide applicators in New York State
- 2000 - May **Executive Leadership Management Program**
The George Washington University Center
For Excellence in Municipal Management

EMPLOYMENT RECORD

- Present **Health Scientist (Toxicology)**, U.S.
Department of Labor, Division of
Energy Employee Occupational Illness
Compensation, Washington, DC
- 2004 - August **Environmental Epidemiologist**, Bureau of
2006 - February Epidemiology and Health Risk Assessment
Department of Health, Washington, DC.
- Principal Investigator**
Centers for Disease Control &
Prevention/National Center for

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Environmental Health, National
Environmental Public Health Tracking
Program.

Project period September 2002 - July
2006, Award \$1,800,000

1999 - August

2004 - August

Bureau Chief, Hazardous Material &
Toxic Substances, Department of Health,
Environmental Health Administration,
Washington, DC

Management of 80 staff in four
Divisions

Budget: \$ 7,800,000 in Congressional
appropriated funds & Federal grants.
Direct supervision of seven management
and administrative staff.

- Direct technical responsibility for the District of Columbia's position on the lead in drinking water contamination, advised medical officers, city administrator and the executive office of the Mayor to assess all sources of lead exposure from environmental health assessments.
- Direct management and technical responsibility for the exposure investigation (biomonitoring) of arsenic during the remediation of Spring Valley formerly used defense site (FUDS).
- Responsible for all print and television media response on lead in drinking water & arsenic clean-up levels, health assessments, and exposure investigations.
- Drafted response and testified before Congress on the District of Columbia position regarding arsenic

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- contamination in Spring Valley and the potential health effects.
- Implemented first Web-based computerized surveillance system of blood lead screening data of children less than six years of age.

1991 - September

1999 - August

Epidemiologist, Division of Health Studies, Epidemiology and Surveillance Branch, Centers for Disease Control/Agency for Toxic Substances and Disease Registry Atlanta, Georgia.

Principal Investigator

CDC/ATSDR, Division of Health Studies
"A cohort study of current and previous residents of the Silver Valley: assessment of lead exposure and health outcomes".

Project period approval June 1994 - June 1998, direct costs - \$1,500,000.

- Developed protocol and questionnaire to investigate neurologic, kidney and reproductive outcomes.
- Managed collaboration with NIOSH, Emory University and McMaster University.
- Managed submission proposal for the Office of Management and Budget (OMB).
- Acquired CDC human subject approval for biological testing.
- Technical manager of consulting firm National Opinion Research Center, Chicago, Illinois (Data Collection).
- Technical manager of consulting firm Midwestern Research Institute, Kansas

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City, Missouri (Biological Specimen Collection).

- Review and approval of budgetary requests From National Opinion Research Center Midwestern Research Institute, Analytical Sciences, Inc.
- Blood and urine samples collected and K X-ray fluorescence used to document current and historical lead exposure.
- Designed and conducted analysis using univariate and multivariate methods.
- Communicated with physicians and other health professionals in exposed community.
- Participated in workshop to evaluate the potential for medical monitoring exposed population.

State Project Manager, Silver Valley Lead Surveillance Program, Kellogg, Idaho.

State Project Manager, Minnesota Arsenic Research Study - Well Water Contamination, St. Paul, Minnesota.

State Project Manager, Surveillance of Hazardous Waste Site Respiratory Effects, Orange County, California.

State Project Manager, Lung Cancer Mortality Study in Smelter Communities, Phoenix Arizona.

State Project Manager, Bladder Cancer Screening in Former Workers and Residents Exposed to MBOCA, Kalamazoo, Michigan.

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State Project Manager, Mortality Study of Children Residing Near ASARCO Copper Smelter in Ruston, Washington.

1990 - September

Epidemiologist, Extramural Management; Project Management of State Grants and Cooperative Agreements, CDC/ASTDR, Atlanta, Georgia.

1991 - September

- Design and review epidemiologic studies of surveillance systems to evaluate exposures to hazardous substances or adverse health effects.
- Provided advice and consultation on epidemiologic studies previously conducted around hazardous waste sites.
- Directed the implementation and conduct of epidemiologic studies; including the coordination of laboratory analysis of biological specimens and on-site management to field teams conducting epidemiologic investigations.
- Reviewed and analyzed environmental data and other appropriate information to determine the extent of danger to the public from the release of hazardous substance for the purpose of determining the need for further health studies.
- Represented the Division of Health Studies in meetings with representatives of other Federal agencies, state health departments, private citizen groups, and other CDC personnel in matters relating to public health associated with hazardous waste sites.

1987 - September to
1990 September

Research Fellow, Bureau of Environmental & Occupational

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Epidemiology, New York State
Department of Public Health, Albany,
New York. (Wadsworth Laboratory)

- Designed and managed cross-sectional study of neurotoxic effects among pesticide applicators that spray organophosphates.
- Reviewed epidemiologic and toxicologic literature of organophosphate pesticides.
- Developed protocol and received human subjects review approval.
- Coordinated the participation of the New York State Pesticide Licensing Bureau.
- Recruited pesticide applicators to participate.
- Designed questionnaire and exposure assessment interview forms.
- Performed neurological screening test on pesticide applicators and controls.
- Collected urine specimens and conducted interviews with applicators and controls.
- Performed all laboratory analysis of urine samples using gas chromatography.
- Analyzed data using univariate and multivariate methods.
- Presented results at national scientific meetings.

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1984 - February
1987 - September

Epidemiologist, Division of Environmental Epidemiology and Toxicology, Massachusetts Department of Public Health Boston, Massachusetts.

Principal Investigator

Designed case control study of leukemia.

- Developed data collection instruments; questionnaire and hospital abstract form.
- Presented protocol to State and hospital medical record staff to abstract data.
- Managed the citizen advisory committee within target population.

Principal Investigator

Designed and conducted case control study of kidney cancer.

- Developed the protocol and received human subjects approval.
- Managed the project budget and work plan.
- Designed questionnaire for telephone interviews.
- Managed contract between Department of Public Health and data collection agency.
- Coordinated with hospital administrators.
- Managed hospital review of pathology reports.

- Supervised computer programmer.
- Managed analysis plan of univariate and multivariate statistical methods.
- Principle author of scientific report.

Epidemiologist

Developed initial grant proposal to CDC: Retrospective Study of Adverse Reproductive Outcomes in Woburn, Massachusetts.

- Analyzed cancer statistics from cities and towns using proportionate mortality and incidence ratios.
- Developed articles and reports Regarding environmental and occupational issues.
- Reviewed epidemiologic studies related to Agent Orange exposure.
- Administrated over the development of a report on the neurobehavioral effects of occupational and environmental hazards.
- Managed the collaboration of an inter-agency environmental data base.

1982 - May to
September

Epidemiologist, Intramural Research, The National Institute of Neurological and Communicative Disorders and Stroke, (NINCDS) Bethesda, Maryland.

- Collaborated in ad hoc descriptive and analytic epidemiologic study of twins discordant for Parkinson's disease by telephone interview.

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- Participated in final revision of questionnaire.
- Provided strategy for data collection based on pilot study.
- Implemented statistical design.
- Administered telephone interviews of cases and controls.
- Collaborated with neuroepidemiologists, nutritionists, geneticists and other scientists regarding the study.
- Participated in seminars and presentations.
- Co-authored published scientific article.

1981 - June to
September

Epidemiologist, Intramural Research, The National Institute of Neurological and Communicative Disorders and Stroke, (NINCDS) Bethesda, Maryland.

Designed and conducted a case control pilot study of Parkinson's disease from hospital population at the NIH clinical center.

- Developed questionnaire for data collection.
- Administered in-person interviews at the NIH clinical center.
- Designed statistical analysis.
- Analyzed data using 1:1 matching.

- Results implemented into larger case control study of twins discordant for Parkinson's disease.

PROFESSIONAL AWARDS

2005 **National Academy of Sciences** Committee on Personal Protective Equipment in the Workplace

2003 **National Academy of Sciences** Committee to Assess the Health Implications of Perchlorate Ingestion

2002 DC DOH/EHA **Performance Award**

2000 DC DOH/EHA **Performance Award**

1999 CDC/ATSDR **Nomination - Shepard Award**

1999 CDC/ATSDR **Best Scientific Paper of the Year**

1999 CDC/ATSDR **Performance Award**

1998 CDC/ATSDR **Performance Award**

1997 CDC/ATSDR **Employee of the Year**

1997 CDC/ATSDR **Performance Award**

1996 CDC/ATSDR **Performance Award**

1994 CDC/ATSDR **Performance Award**

1982 NIH (NINCDS) **Summer Internship Award**

FEDERAL GRANTS ADMINISTERED/MANAGED

2003 **Centers for Disease Control & Prevention, Childhood Lead Poisoning Prevention Grant \$1,500,000 (2003-2005),** for identification of the prevalence of childhood lead poisoning in Washington, DC

2003 **Centers for Disease Control & Prevention, National Environmental Public Health Tracking Grant \$1,800,000 (2003-2006),** for the inventory and assessment of environmental data bases for which CDC can query environmental and health data linked to other states to monitor the health of residents that could be adversely affected by chemical, biological or other environmental exposures in Washington, DC

- 1999 **Housing & Urban Development Lead-Based Paint Grant \$2,300,000 (1999-2001)**, for the identification and removal of lead based paint hazards in dwellings where lead poisoned children reside in Washington, DC
- 1999 **Environmental Protection Agency State Lead & Enforcement Grant \$187,000 (1999-2004)**, to establish an EPA authorized program to certify lead based paint workers and permit work-sites where lead paint removal occurs in Washington, DC
- 1999 **Environmental Protection Agency Voluntary Clean-up Grant \$1,300,000 (1999-2004)**, to establish a program where remediation of chemicals, heavy metals or other contaminants occurs prior to development of properties to mitigate exposures to contaminants that are associated with adverse health effects in Washington, DC
- 1999 **Department of Defense and State Memorandum of Agreement Cooperative Agreement \$823,000 (1999-2004)**, for the removal of chemicals, heavy metals, and other contaminants to mitigate exposures that remain from Federal properties used during WWI which are associated with adverse health effects in Washington, DC
- 1999 **Environmental Protection Agency Underground Storage Tank Grant \$365,000 (1999-2004)**, for the identification, and inspection of petroleum from underground storage tanks to mitigate exposure to ground water/soil that may cause adverse health effects in Washington, DC
- 1999 **Environmental Protection Agency Hazardous Waste Management Grant \$333,000 (1999-2004)**, for the identification, inspection, transportation, and disposal of hazardous substances which can be associated with adverse health effects in Washington, DC

- 1999 **Environmental Protection Agency Pesticide Partnership Grant \$259,000 (1999-2004)**, for management of the use, distribution & disposal of pesticide products which can be associated with adverse health effects in Washington, DC
- 1999 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, A Surveillance Study of Health Effects Associated with Clean-up of a Hazardous Waste Site in Orange County, California
- 1996 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, Self-Testing for Hematuria among a Population of Community Residents, Workers, and Family Members with Potential Exposure to Bladder Carcinogens at Three Locations in Michigan
- 1997 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, Arsenic Research Study of Well Water Contamination in St. Paul, MN
- 1995 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, A Population-Based Case-Control Study of Lung Cancer Mortality in Four Arizona Smelter Towns, Tucson, AZ
- 1994 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, A Cohort Study of Current and Previous Residents of the Silver Valley: Assessment of Lead Exposure and Health Outcomes Kellogg, ID
- 1992 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, Mortality Study of Children Residing Near ASARCO Copper Smelter in Ruston, WA
- 1991 **Centers for Disease Control & Prevention/Agency for Toxic Substances & Disease Registry Research Grant**, Blood Lead Surveillance among Children Residing in the Silver Valley Kellogg, ID

PUBLICATIONS

Walker B, Stokes L. Introduction to Polymers (3 Chapters), In: Patty's Industrial Hygiene & Toxicology 6th edition (In Press), New York: Wylie & Sons Publisher.

Babin S, Burkom H, Holtry R, Tabernero N, Stokes LD, Davies-Cole J, DeHaan K, Lee D. Medicaid patient asthma-related acute care visits and their associations with ozone and particulates in Washington, DC, from 1994-2005, International Journal of Environmental Health Research, 18(3): 209-21, 2008.

Babin S, Burkom H, Holtry R, Tabernero N, Stokes LD, Davies-Cole J, DeHaan K, Lee D. Pediatric patient asthma-related emergency department visits and admissions in Washington, DC, from 2001-2004, and associations with air quality, socio-economic status and age group, Environmental Health, Environmental Health, 6:9-13, 2007.

Guidotti TL, Calhoun T, Davies-Cole JO, Knuckles ME, Stokes L, Glymph C, Cote T, Moses MS, Goldsmith DF, Ragain L. Elevated lead in drinking water in Washington, DC, 2003-2004: The public health response, Environmental Health Perspectives, 115:695-701, 2007.

Stokes L, Epidemiologic studies of occupational and environmental exposures to perchlorate - chapter 3 studies in occupational cohorts and adults, Health Implications of Perchlorate Ingestion, Committee to Assess the Health Implications of Perchlorate Ingestion, Board on Environmental Studies and Toxicology, National Research Council, the National Academies Press, 2005.

Stokes L, Onwuche NC, Thomas P, Davies-Cole JO, Calhoun T, Glymph AC, Knuckles ME, Lucey D, Cote T, et al., Blood lead levels in residents of homes with elevated lead in tap water - District of Columbia, Morbidity & Mortality Weekly Report 53: March 30, 2004.

Walker B, Stokes LD, Warren R. Environmental factors associated with asthma, J Nat Med Assoc, 95:152-166, 2003.

Gerr F, Letz R, Stokes L, Chettle DR, McNeill FE, Kaye WE. Association between bone lead concentration and blood pressure in young adults, Am J Ind Med 42:98-106, 2002.

McNeill FE, Stokes LD, Britto JAA, Chettle DR, Kaye WE. Cd K X-ray fluorescence measurements of tibia lead content in a population of young adults exposed to lead in early childhood Occup Environ Med, 57:465-471, 2000.

McNeill FE, Stokes LD, Chettle DR, Kaye WE. Factors affecting in vivo measurement precision and accuracy of 109 Cd X-ray fluorescence measurements. Physics Med Biol, 44:2263-2273, 1999.

Stokes LD, Letz R, Gerr F, Kolczak M, McNeill FE, Chettle DR, Kay WE. Neurotoxicity in young adults 20 years after childhood exposure to lead: the Bunker Hill experience. Occup Environ Med 55:507-516, 1998.

Stokes LD, Kolczak M, Kaye WE. Kidney function in young adults 20 years following childhood lead exposure: the Bunker Hill experience (abstract) Epidemiology 9 (4):S86, 1998.

Stokes LD, Kolczak M, Kaye WE. Reproductive performance in young adults twenty years following childhood lead exposure: the Bunker Hill experience (abstract) Epidemiology 9 (4):S147, 1998.

Stokes LD. A cohort study of current and previous residents of the Silver Valley: assessment of lead exposure and health outcomes. U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry, Document Number PB97-193090, August, 1997.

Stokes LD, Stark A, Marshall E, Narang A. Neurotoxicity among pesticide applicators exposed to organophosphates. Occup Environ Med 52:648-653, 1995.

Bharucha N, Stokes LD, Schoenberg B, Ward C, Ince S, Eldridge R, Calne D, Nutt J, Duvoisin R. A case-control study of twin pairs discordant for Parkinson's disease (PD); a search for environmental risk factors. Neurology 36:284-288, 1986.

Stokes LD, Cutler J, Walker B. A matched case-control study of renal cell carcinoma in Massachusetts. Proceedings of the 114th American Public Health association Conference, Las Vegas, Nevada, November, 1986.

UNPUBLISHED MANUSCRIPTS

Walker B, Stokes LD. The present epidemiological basis for occupational medicine and hygiene, Massachusetts Department of Public Health Report June, 1985.

Stokes L, Walker B. Neurobehavioral effects of air pollution. Review paper for the committee on the epidemiology of air pollution, National Academy of Sciences, Massachusetts Department of Public Health Report, June, 1984.

Walker B, Stokes LD. The Scientific basis for EDB control in the prevention of hazardous health effects. Massachusetts Department of Public Health Report, June, 1984.

Stokes LD. A ten-year historical prospective study of ischemic heart disease. Graduate Research Project, Department of Epidemiology, University of Michigan, May, 1982.

PRESENTATIONS

Congressional Testimony, US House of Representatives, Committee on Government Reform, US Government Accounting Office Investigation of Federal Agencies involved in the site remediation of Spring Valley FUDS, Washington, DC, June, 2002.

Department of Health Response to Spring Valley Scientific Advisory Panel Recommendations, Washington, DC, December, 2001.

Human Health Effects of Arsenic, Spring Valley Scientific Advisory Panel, Washington, DC, April, 2001.

Potential Health Effects of Arsenic Exposure, Child Development Center, American University, Washington, DC, February, 2001.

Comprehensive Childhood Lead Poisoning Prevention Act of 2000, District of Columbia Mayor's Health Policy Council, Washington, DC. April, 2000.

Lead Poisoning in the District's of Columbia, Where Are We Now? National Lead Poisoning Prevention Conference "Working Together: Accomplishing Our Mission in the Next Decade", Washington, DC, January, 2000.

Anemia and increased bone lead twenty years after childhood exposure to lead: The Bunker Hill experience. The 11th Annual Conference of the International Society for Environmental Epidemiology, Athens, Greece, September, 1999.

Kidney function in young adults twenty years following childhood lead Exposure: the Bunker Hill experience. The 10th Annual Conference of the International Society for Environmental Epidemiology, Boston, Massachusetts, August, 1998.

Reproductive performance in young adults twenty years following childhood Lead exposure: the Bunker Hill experience. The 10th Annual Conference of the International Society for Environmental Epidemiology, Boston, Massachusetts, August, 1998.

Long Term Effects of Childhood Lead Exposure in Previous Residents of the Silver Valley: Assessment of Bone Lead and Health Outcomes. The 9th Annual Conference of the International Society for Environmental Epidemiology, Taipei, Taiwan, August, 1997.

Neurobehavioral Performance in Young Adults Twenty Years Following Childhood Lead Exposure: The Bunker Hill Experience. The 6th meeting of the International Neurotoxicology Association, Szeged, Hungary, June, 1997.

A Cohort Study of Current and Pervious Residents of the Silver Valley: Assessment of Lead Exposure and Health Outcomes, Community Meeting, Kellogg, Idaho, November, 1996.

The Long Term Effects of Lead Exposure, Director (Dr. David Satcher), Centers For Disease Control and Prevention, Atlanta, Georgia, October, 1996.

K X-ray Fluorescence Results in Bunker Hill Residents Exposed to Lead, International Congress on Hazardous Waste, Atlanta, Georgia, June, 1995.

An Analysis of Serial Blood Lead Levels in Silver Valley Idaho: Trends for The Period 1974 - 1989, International Congress on the Health Effects of Hazardous Waste, Atlanta, Georgia, April, 1993.

Surveillance Research Needs Among Minority Populations in Close Proximity to Hazardous Waste Sites, Symposium on Health and

Research Needs to Ensure Environmental Justice, Arlington, Virginia, February, 1994.

Clues to Unraveling the Association Between Illness and Environmental Exposure, American Public Health Association Continuing Education Program, "Environmental Epidemiology", Washington, D.C., November, 1992.

Chairperson, Occupational Health Section, National Minority Health Conference: Focus on Environmental Contamination, Atlanta, Georgia, December, 1990.

Neurotoxicity Among Licensed Pesticide Applicators in the Agricultural Industry, American Public Health Association Conference, Occupational Epidemiology Section, Atlanta, Georgia, November, 1991.

An Epidemiologic Study of Licensed Pesticide Applicators in New York State, New York State Department of Public Health, Albany, New York, September, 1990.

Case-control Kidney Cancer Study, Massachusetts Department of Public Health Research, Massachusetts Senators and Representatives State House, Boston, Massachusetts, August, 1987.

Epidemiology and Urbanization, invited speaker at the symposium on Urbanization: Environmental Hazards in Urban Communities, Harvard University School of Public Health, Boston, Massachusetts, April, 1987.

Risk Factors for Renal Cell Carcinoma in Merrimack Valley Massachusetts, Harvard University Biomedical Society Meeting, Boston, Massachusetts, December, 1986.

A Matched Case-Control Study of Renal Cell Carcinoma in Massachusetts, American Public Health Association Conference, Epidemiology Section, Las Vegas, Nevada, September, 1986.

Epidemiology and Control of Kidney Cancer in Massachusetts, National Environmental Health Association Conference, Hartford, Connecticut, June, 1986.